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VAX/VMS
Systems Dispatch
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VAX/VMS SYSTEMS DISPATCH

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The **VAX/VMS Systems Dispatch** contains new and revised Software Product Descriptions, programming notes, software problems statements and responses. Much of the material is developed from Software Performance Report (SPR) answers significant to the general audience and is printed here to supplement the maintenance updates.

DECnet-VAX
DECtype/VMS
VAX ReGIS Graphics Library
RTEM-11
VAX Ada
VAX ADE
VAX BASIC
VAX BLISS
VAX C
VAX CDD
VAX COBOL

VAX CORAL-66
VAX DATATRIEVE
VAX DBMS
VAX DECalc
VAX DECOR
VAX DIBOL
VAX DSM
VAX
VAX FORTRAN
VAX MUX200
VAX PASCAL
VAX PL/I

VAX SPM
VAX TDMS
VAX 2780/3780 Protocol
Emulator
VAX 3271 Protocol
Emulator
FORTRAN IV/VAX to RSX
(Cross Compiler)
VAX SORT/MERGE
VAX
PDP DATATRIEVE/
VAX

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Barbara Scollan, Associate Editor

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**HELPFUL HINTS
FOR WRITING
SPRs**

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HINTS FOR WRITING SPRS

1.0 Introduction

Software Performance Reports (SPRs) exist to benefit customers as well as DIGITAL. They provide information to customers and feedback to DIGITAL about software problems.

The following descriptions provide guidelines for submitting information to DIGITAL so that SPR problems can be solved. Some information is common to all SPRs; other information is requested for only certain types of problems.

2.0 SPR Priority Levels

The following explanations of SPR priorities should be used as a guideline for determining the priority of an SPR. Please note that the priority determination should be based on the system or facility behavior that has actually been experienced at the site and should not be based on the perception of the impact of a potential problem.

Priority

Explanation

1. MOST PRODUCTION WORK CANNOT BE RUN e.g., important production software is unusable, the system will not boot, necessary peripherals cannot be used as intended, no workaround exists.
2. SOME PRODUCTION WORK CANNOT BE RUN e.g., certain functions or jobs are not usable, level of performance is not as expected or some documented feature does not work as expected but there is a workaround.
3. ALL PRODUCTION WORK CAN BE RUN WITH SOME IMPACT ON USER e.g., significant manual intervention is required, performance has degraded but work can still be done.
4. ALL PRODUCTION WORK CAN BE RUN WITH NO SIGNIFICANT IMPACT ON USER e.g., problem can be patched easily, simple bypass procedure exists.
5. NO SYSTEM MODIFICATIONS NEEDED TO RETURN TO NORMAL PRODUCTION e.g., suggestion, consultation, documentation error or inquiry.

3.0 General Guidelines

This section covers the information that should be provided with all SPRs. Depending upon the problem, this information will vary in quantity and content. Remember that the more pertinent information that is included, the easier it is for DIGITAL to resolve the problem.

3.1 Scenario

A complete scenario should be supplied, usually in the form of a batch log console listing or SET HOST/LOG output file that shows exactly how the problem is produced. Supplying only the output produced by the problem is not enough. The entire scenario of what was done by the user is needed. The problem may be caused by an interaction between various system events, software packages, devices, SYSGEN parameters, DCL symbols or logical names. Some or all of the displays generated by the following commands may be required for different problems:

```
$ SHOW LOGICAL/ALL/FULL
$ SHOW SYMBOL/ALL/GLOBAL

$ RUN SYS$SYSTEM:SYSGEN
SYSGEN> USE ACTIVE
SYSGEN> SHOW/ALL
SYSGEN> SHOW/SPECIAL
SYSGEN> EXIT
```

3.2 Limit Problem Scope

As much as possible, eliminate all extraneous elements from the scenario. For example, if the execution of a very large program causes a problem, shorten the program to include only the code that causes the problem or write a small program that demonstrates the problem. This action has two benefits: first, logic errors may be discovered; second, the maintainer looking into the problem does not have to comprehend unnecessary material.

3.3 Machine-readable Files

If possible, supply any software needed to reproduce the problem. This may include source programs, image files, sample data, command procedures, logical names etc. If source programs are submitted, also include any libraries or require files referenced. These files must be provided in machine-readable format. Console medium or ANSI magtape are the best media to include with the SPR.

If the problem involves a system crash, include the system dump.

The data should be written to an ODS-2 format disk or an ANSI magtape. For example, the following commands will copy the system dump file to an ANSI magtape:

```
$ INIT MTAO: DUMPS
$ MOUNT/FOREIGN MTAO:
$ BACKUP/IGNORE=NOBACKUP SYS$SYSTEM:SYSDUMP.DMP -
$ MTAO:DUMPS/SAVE
$ DISMOUNT MTAO:
```

NOTE

Since the system dump file is frequently marked NOBACKUP (telling the BACKUP utility to copy the file attributes but not its contents), the dump file must be copied with:

BACKUP/IGNORE=NOBACKUP

This will insure that the file contents are copied, as well as the file attributes. The commands used to write the media should also be provided with the SPR.

On a MicroVAX, where there is no console block storage device, use one of the floppy diskette drives to create machine-readable medium to be included with the SPR. The following commands can be used to copy files:

```
$ INIT $FLOPPY1: SPRDATA
$ MOUNT $FLOPPY1: SPRDATA
$ CREATE/DIRECTORY $FLOPPY1:[DUMP]
$ BACKUP MYDATA.DAT,MYIMAGE.EXE $FLOPPY1:[DUMP]SPRDATA/SAVE
$ DISMOUNT $FLOPPY1:
```

On a full VAX, where there is a console block storage device, the following commands can be used to copy machine-readable data:

```
$ RUN SYS$SYSTEM:SYSGEN
SYSGEN> CONNECT CONSOLE
SYSGEN> EXIT
```

(At this time, remove the console medium and place a scratch volume in the console block storage device.)

```
$ INIT CSA1: SPRDATA
$ MOUNT CSA1: SPRDATA
$ CREATE/DIRECTORY CSA1:[DUMP]
$ BACKUP MYDATA.DAT,MYIMAGE.EXE CSA1:[DUMP]SPRDATA/SAVE
$ DISMOUNT CSA1:
```

It is important to use BACKUP to write the media submitted with an SPR. Transferring files in a save set produced by BACKUP is much more reliable than copying files to the media.

When machine-readable data is not provided in BACKUP save-set format, include the exact commands that were used to write the data and the commands used for reading it. Other formats are discouraged, since they may cause problems.

All machine-readable media submitted with SPRs will be returned to the customer.

3.4 System Environment

Every computer site runs a different type of workload. Some problems only appear under certain conditions. For example, some sites give different classes of users different base priorities. These sites may encounter problems that other sites do not. This information can be extremely important in resolving the problem, especially for system hangs or system crashes.

Describe any special software packages that are being used. Also, mention any foreign hardware devices or user-written drivers.

Software version numbers should be included. For example, if there is a problem with accessing local symbols during a DEBUG session, the version numbers of DEBUG and all relevant compilers/assemblers should be specified.

If any patches other than those from maintenance updates are being used, they should be mentioned in the SPR.

3.5 User Analysis (Optional)

Optionally, an analysis of the problem may be included. Any useful miscellaneous information should be included, such as, "Without xyz happening, the problem could not be reproduced" or "On version Vx.y, this problem does not occur."

4.0 Problem-specific Information to Include

Resolution of different classes of problems generally requires different kinds of additional information.

NOTE

For those items that are identified with a single asterisk (*), the raw data file (SYS\$ERRLOG:ERRLOG.SYS), not the formatted output from the ANALYZE/ERROR utility, should be included. Formatted output frequently does not include all the information needed to resolve the problem.

For those items that are identified with a double asterisk (**), the raw data file (SYS\$SYSTEM:SYSDUMP.DMP), not the formatted output from the SDA utility, should be included. Formatted output usually does not include all the information needed to resolve the problem.

Problem	Information to Include
System Bugcheck/Crash	<p>A machine-readable copy of the system dump file must be included.** (Output from the SDA utility should not be sent since it usually does not include enough information to resolve the problem).</p> <p>A copy of the error log at the time of the error should also be included because many system problems are triggered by hardware errors.*</p>
Machine-check:	<p>On a machine check, include a machine-readable copy of the error log, not output from the error log generator.*</p> <p>A machine-readable copy of the system dump file should also be included. **</p>
System Hang:	<p>When a system appears "hung" (no response on any terminals), the system should be manually crashed and the system dump file included with the SPR.</p> <p>When the system is shut down in this way, the console listing is very important and should be included with the SPR.</p> <p>On VAX-11/730, VAX-11/780, VAX-11/782, VAX-11/785, and VAX 8600 primary console terminals, enter: (do nothing on the attached processor's console)</p> <p>^P HALT @CRASH</p>

On VAX-11/750 console terminal,
enter:

```
^P
E P
E/I 0
E
E
E
E
D/G F FFFFFFFF
D P 1F0000
C
```

On MicroVAX I:

Push the HALT button on the front panel of the CPU box twice, so that the button is latched out (the red light in the center of the button is out).

Then, on the console terminal, enter:

```
E P
E/I 0
E +
E +
E +
E +
D/G F FFFFFFFF
D P 1F0000
C (Then wait a minute or so)
```

Note: If a CRT is being used, copy the displayed values from the examine commands to paper and submit them with the SPR.

On MicroVAX II:

Enable the HALT button via the switch on the back panel of the CPU box.

Push the HALT button on the front panel of the CPU box twice, so that the button is latched out (the red light in the center of the button is out).

Then, on the console terminal, enter:

```
E PSL
E/I 0
E +
E +
E +
E +
D PC FFFFFFFF
D PSL 1F0000
C (Then wait a minute or so)
```

Note: If a CRT is being used, copy the displayed values from the examine commands to paper and submit them with the SPR.

The preceding command sequences cause the VAX or MicroVAX system to bugcheck in a manner that is recognized by VMS developers as a forced crash.

Also include a description of the currently running workload.

VAXclusters:

If all machines in a VAXcluster are "hung" for a reason other than an explainable lack of quorum, a coordinated set of dumps plus console listings from all machines may be required for diagnosis. A coordinated set of dumps is a dump from every machine in the cluster taken in a way that ensures that the lock and other data structures are consistent between all dumps. To take a coordinated dump, first halt every VAX in the cluster. The last machine must be halted no more than 99 seconds after the first machine is halted. After all machines have been halted, crash each machine as directed under SYSTEM HANG, and provide all of the dumps and all of the console logs with your SPR.

Executive: If it appears that there is a problem with the executive code, include the active values of the system parameters. These can be obtained by invoking SYSGEN and entering both the SHOW/ALL and SHOW/SPECIAL commands.

A machine-readable copy of the source program showing the problem plus libraries, require files, and build files should also be included, if possible.

Also include a copy of the machine-readable error log at the time of the problem. *

Devices: For any suspected device or device driver error, include a copy of the error log at the time of the problem. *

Corrupted RMS Files: When an RMS file becomes corrupted by software, an SPR should always be submitted. Items to include with the SPR are:

- 1) A copy of the corrupted file.
- 2) Any programs (preferably with sources) and data that are necessary to reproduce the corruption. Note the distinction between programs that merely demonstrate that the file is corrupt, as opposed to a program that causes the corruption to occur. Please try to trim down the program to isolate the specific operations that led to the corruption.
- 3) A description of how the file is being processed when the corruption occurs. For example, how many users are accessing the file, what kind of operations are being performed on the file (\$UPDATES, \$PUTs, \$DELETES, etc.).

Sometimes accessing a corrupted file can cause nonfatal bugchecks. If it

appears that a process is continually disappearing from the system, check the error log for nonfatal bugchecks. If this is the case, include a crash dump with the SPR. To obtain a crash dump (assuming the system manager has given permission), perform the procedure below. Since this procedure will crash the system, it is suggested that it be performed during off-peak hours. Be sure to give adequate warning if there are any users on the system.

```
$ RUN SYS$SYSTEM:SYSGEN
SYSGEN> USE ACTIVE
SYSGEN> SET BUGCHECKFATAL 1
SYSGEN> WRITE ACTIVE
SYSGEN> EXIT
$ RUN PROGRAM_THAT_BUGCHECKS
```

Intermittent: For a problem that is intermittent or that is not reproducible, include a copy of the machine-readable error log at the time of the problem. *

**Command Language
Interpreters:**

When submitting an SPR on a command language interpreter, it is important to show all symbols and logical names defined on the system by using the following commands:

```
SHOW SYMBOL/ALL/GLOBAL
SHOW SYMBOL/ALL/LOCAL
SHOW LOGICAL/ALL/FULL
```

Also, indicate whether private or modified command tables are being used.

Job Controller:

If the job controller process encounters a fatal error condition, it aborts execution and restarts itself (as a new process). Upon restart, the system job queue file is not reopened automatically; a START/QUEUE/MANAGER command and

appropriate START/QUEUE commands must be manually issued to restart batch and print processing for that node.

For this type of controller problem, include a copy of the console log error message and a machine-readable copy of the job controller process dump written by the system to SYS\$SYSTEM:JOBCTL.DMP. In addition, if the START/QUEUE/MANAGER command fails because of a corrupted system job queue file, also include a machine-readable copy of the queue file. The default queue file name is SYS\$SYSTEM:JBCSYSQUE.DAT.

Print Symbiont:

Print symbiont process dump:

If the print symbiont exits, a message from the job controller is printed on the console, together with an error message from the print symbiont. Also, a symbiont process dump is written to SYS\$SYSTEM:PRTSMB.DMP. Include a copy of these console log messages and a machine-readable copy of the symbiont process dump. Also include copies of the displays:

- SHOW QUEUE/FULL/ALL
- SHOW PRINTER (for all
printer execution queues)
- SHOW QUEUE/FORM/FULL
- SHOW TERMINAL (all terminal
execution queues)

If a file was involved, include a DIRECTORY/FULL of the file and, if possible, a machine-readable copy of the file. If at all possible, attempt to explain the conditions which directly preceded the symbiont exit, such as commands used or attempted, and/or a detailed description of the symbiont behavior prior to exiting.

Unexpected format or output generated with print symbiont:

If the print symbiont problem exists in the formatting or output of data, include a machine-readable copy of the file and the library modules in use when printing.

Include a DIRECTORY/FULL display of the file and a copy of the displays using the following commands:

SHOW QUEUE/FULL/ALL

SHOW QUEUE/FORM/FULL

SHOW PRINTER and/or SHOW TERMINAL
(whichever is applicable)

Along with a description of the explicit PRINT command, include qualifiers and a copy of the FILE TRAILER page. Please provide all information required to reproduce the behavior consistently.

User-written and user-modified symbiont problems:

Describe the problem as completely as possible, including the intent of the user symbiont. Supply all details surrounding the problem and include a well-commented listing of the user-supplied symbiont or routine. If the problem is associated with the specification of the queue, form, characteristics, parameters, or other input to the DCL command line, include a log file or a description of the PRINT command which demonstrates the problem.

LIBRARIAN:

If there is a problem with the LIBRARIAN, include the following material:

1. A machine-readable copy of the library itself
2. Machine-readable copies of all input files to the library
3. Information (DIRECTORY/FULL) on the library file
4. Information (LIBRARY/LIST/FULL) on the library contents

If the problem can be duplicated at will, include the scenario and any command files used.

- LINKER:** If there is a problem with the LINKER, include machine-readable copies of the object files, shareable images, and libraries used in the link, along with a full map (LINK/MAP/FULL).
- Debugger:** Include sources, objects, and images for the program being debugged. If the program is large, it would be very helpful to reduce the size of the program to demonstrate the same problem. Also include a log of the debugging session and include the DEBUG.LOG file that the debugger produces.
- DECnet:** For a DECnet problem, supply configurations of the systems involved in the problem. This information should include the version numbers of the operating systems and DECnet, the hardware on both systems, and the patch level of the DECnet software on the non-VMS system, if applicable. Depending on the nature of the problem, it might also be applicable to supply hard-copy display of executor, line or circuit parameters and/or counters.
- Terminals:** If there is a problem with the terminal driver, provide the following information:
1. A list of terminal characteristics (SHOW TERMINAL)
 2. The type of terminal
 3. The type of modem (if any)
 4. Any special front-end equipment
 5. Any unusual terminal configuration
- If the problem involves remote file access, it is often useful for the maintainer to know if the same or similar operation can be performed from a different account, or with the source and destination nodes reversed.
- Compiler/Assembler:** If there is a problem with the assembler or a compiler, include the source program that caused the problem. (It is very important to include all require files and libraries that are referenced by the source program).

It is especially important to limit the scope of the problem when submitting SPRs on compilers.

Include the version number of the compiler and the version number of the operating system.

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OPERATING SYSTEM: VAX/VMS V4.1
PRODUCT: VAX/VMS
COMPONENT: MAIL

Seq. 56.30.4

MAIL command COMPRESS does not reclaim space

PROBLEM STATEMENT

The MAIL command COMPRESS creates a new file and loads it. However, the command SHOW ALL still shows recoverable deleted message bytes. It appears that the space has not been recovered or that it is not compressed. The new file is usually smaller than the original.

RESPONSE

This behavior is caused by an oversight in the MAIL command COMPRESS. Since the file has been rebuilt, the deleted space is recovered. However, the deleted space count, which is kept in a special record in the mail file, is not reset.

We expect to correct this in a future update of VAX/VMS. As a workaround, issue the command PURGE/RECLAIM to clear the deleted message byte count.

OPERATING SYSTEM: VAX/VMS V4.1
PRODUCT: VAX/VMS
COMPONENT: MAIL

Seq. 56.30.5

Problems with terminal set to SCOPE/PAGE=0

PROBLEM STATEMENT

MAIL exits immediately, without executing, when using the following command:

```
$SET TERMINAL/SCOPE/PAGE=0/DEVICE=UNKNOWN
```

A full page of blanks is displayed after exiting MAIL when this command is used:

```
$SET TERMINAL/SCOPE/DEVICE=UNKNOWN
```

This is useless and expensive, especially at 300 BPS over expensive communication lines.

RESPONSE

This behavior is caused by one of the Run-Time Library Screen Management routines used by the MAIL utility. In the case of the terminal set to /SCOPE/PAGE=0/DEVICE=UNKNOWN, the MAIL utility is terminating with the error:

```
%LIB-F-BADBLOSI2
```

This error occurs when a terminal page length is set to zero. In the case of the terminal set to /SCOPE/DEVICE=UNKNOWN, the Screen Management facility clears the screen with blanks when the terminal type is set to UNKNOWN.

We expect to correct these problems in a future update of VAX/VMS. In the interim, it might be helpful to set the terminal(s) in question to an appropriate DIGITAL-supported terminal type and a nonzero page size.

OPERATING SYSTEM: VAX/VMS V4.1
PRODUCT: VAX/VMS
COMPONENT: MAIL

Seq. 56.30.6

MAIL sends RUNOFF output files incorrectly

PROBLEM
STATEMENT

Sending RUNOFF output via the Mail Utility is not feasible because MAIL incorrectly transmits bolded or underlined text.

RESPONSE

The Mail Utility inserts a carriage-return/line-feed combination between each record of a MAIL message. This behavior incorrectly displays records which should contain only a line feed as a delimiter, such as bolded or underlined text.

We will consider changing this behavior in a future update of VAX/VMS.



VAX/VMS SYSTEMS DISPATCH
CUMULATIVE INDEX FOR VAX/VMS V4.n
JANUARY 1986

Following is a cumulative listing of articles for VAX/VMS V4.n and layered products.

The following list is designed so that in future issues it can be expanded. Consequently, there are several numbers "reserved" for that purpose. Also, within each category the numbering scheme allows for expanding the primary category to include related subsets. For example, under 55.0, Utilities, 55.35 is used for the COPY utility, 55.60 is used for the DIFFERENCES utility, etc. Periodically, the components list is reviewed to insure that it accommodates the current software needs.

R = indicates a republished article

<u>Component/ Product</u>	<u>Sequence Number</u>	<u>Title of Article</u>	<u>Operating System</u>	<u>Mon/Yr</u>
	1.0	<u>NEWS BULLETIN SECTION</u>		
NEWS BULLETIN	1.1.1	IMPORTANT VAX/VMS VERSION 4.2 INFORMATION	V4.2	Sep 85
	1.1.2	IMPORTANT VAX/VMS VERSION 4.2 INFORMATION	V4.2	Nov 85
	1.1.3	IMPORTANT VAX/VMS VERSION 4.2 INFORMATION	V4.2	Nov 85
	5.0	<u>EXECUTIVE & SYSTEM SERVICES SECTION</u>		
IMAGE ACTIVATOR	5.5.1	IMAGE INSTALLED AS /SHARE REQUIRES WORLD:R ACCESS	V4.0	Nov 85
SYS	5.20.1	F\$GETDVI INFORMATION INVALID IF DISK NOT MOUNTED	V4.0	Jul 85
	5.20.2	EXCESSIVE MODIFIED PAGE LIST WRITING	V4.0	Jul 85
	5.20.3	GETJPI PROC INDEX VALUE	V4.0	Jul 85
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 - 5.20 SYS
- 7.0 System Libraries
 - 7.10 IMAGELIB
 - 7.20 LIB
 - 7.30 STARLET
- 10.0 System Management, Operations & Security
 - 10.0.0 System Management
 - 10.5 ACCOUNTING
 - 10.10 SDA
 - 10.15 STARTUP
- 11.0 Operations
 - 11.5 ERROR LOGGING
 - 11.10 EVENT LOGGING
 - 11.15 LOGINOUT
 - 11.20 OPCCRASH
 - 11.25 OPCOM
 - 11.30 SYSBOOT
 - 11.35 SYSGEN
 - 11.40 SYSINIT

	11.45	VMB
	11.50	WRITEBOOT
12.0	Software Installation	
	12.10	UPGRADE
	12.15	VMSINSTAL
13.0	Security	
15.0	BATCH, PRINT, JOB CONTROLLER	
	15.5	BATCH
	15.10	INPUT SYMBIONT
	15.15	JOB CONTROLLER
	15.20	LOCK MANAGER
	15.25	PRINT
	15.30	PRINT SYMBIONT
	15.35	QUEUE MANAGER
20.0	DCL	
25.0	DECnet	
	25.5	DECnet (generic)
	25.10	DDCMP
	25.15	DTS/DTR
	25.20	EVL
	25.25	FAL
	25.30	HLD
	25.35	MIRROR
	25.40	MOM
	25.45	NCP

	25.50	NETACP
	25.55	NML
	25.60	REMACP
	25.65	RTPAD (SET HOST)
30.0	Drivers	
	30.5	Console Drivers
31.0	Disk & Tape Drivers	
	31.5	DBDRIVER
	31.10	DDDRIVER
	31.15	DLDRIVER
	31.20	DMDRIVER
	31.25	DQDRIVER
	31.30	DRDRIVER
	31.35	DUDRIVER
	31.40	DYDRIVER
	31.45	MTDRIVER
	31.50	TFDRIVER
	31.55	TMDRIVER
	31.60	TSDRIVER
	31.65	TUDRIVER
32.0	NET Drivers	
	32.5	CNDRIVER
	32.10	NDDRIVER
	32.15	NETDRIVER
	32.20	NODRIVER
	32.25	XDDRIVER

32.30 XEDRIVER
32.35 XGDRIVER
32.40 XMDRIVER
32.45 XQDRIVER
32.50 XWDRIVER

33.0 Terminal Drivers

33.5 CTDRIVER
33.10 DZDRIVER
33.15 RTTDRIVER
33.20 TTDRIVER
33.25 YCDRIVER
33.30 YFDRIVER

34.0 Other Drivers

34.5 CRDRIVER
34.10 DXDRIVER
34.15 LADRIVER
34.16 LCDRIVER
34.20 LPDRIVER
34.25 LTDRIVER
34.30 MBDRIVER
34.35 MBXDRIVER
34.40 PADRIVER
34.45 PUDRIVER
34.54 XFDRIVER
34.50 XADRIVER
34.55 XGDRIVER
34.60 XIDRIVER

	34.65	XJDRIVER
	34.70	XKDRIVER
	34.75	XMDRIVER
35.0	EDITORS	
	35.5	EDIT/ACL (ACLEDT)
	35.10	EDIT/FDL
	35.15	EDIT/SUM
	35.20	EDT
	35.25	TECO
	35.30	TPU
40.0	File systems and RMS	
	40.5	CONVERT
	40.10	F11AACP
	40.15	F11BXQP
	40.20	FDL
	40.30	MOUNT
	40.40	MTAAACP
	40.45	RMS
45.0	RTL	
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55.0	Utilities	
	55.5	ANALYZE/xxx
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75.0	Communications
75.5	VAX 2780/3780 Protocol Emulator
75.10	VAX 3271 Protocol Emulator
75.15	ETHERNET TERMINAL SERVER
75.20	SNA
75.23	LATCP
75.25	LAT-11
75.30	MESSAGE ROUTER
75.35	MUX200/VAX
75.40	VAX BTS
80.0	Data Management
80.5	VAX CDD
80.10	VAX DATATRIEVE
80.15	VAX DBMS
80.20	VAX Rdb/VMS
85.0	Languages
85.5	VAX Ada
85.10	VAX BASIC
85.15	VAX BLISS-32
85.20	VAX C
85.25	VAX COBOL
85.30	VAX CORAL 66
85.35	VAX DIBOL
85.40	VAX FORTRAN
85.45	VAX MACRO
85.50	VAX PASCAL
85.55	VAX PL/1

90.0 Workstations

95.0 Articles of General Interest

100.0 Hardware Related Information

Purchasing the License for the Software Product

A license must be obtained for each CPU on which the licensed software will be used (unless otherwise specified by DIGITAL).

A Single-use License for object code is generally ordered according to the type/classification of the CPU or system configuration intended to run the product. Further information and availability can be found in the applicable SPD.

Software Product

A license is a prerequisite to purchase the associated software. The Media and Documentation Option for a product is ordered according to media type. Further information and availability of media can be found in the applicable SPD.

Purchasing Software Product Revisions/Updated Versions

If a licensed customer is not covered by a product service agreement, updated versions can be purchased when they are made generally available. Updated versions are ordered according to media type. A customer can also choose to run updated versions on additional CPUs, but not purchase multiple media distributions. If this is the case, the Software Revision Right-to-Copy option must be purchased for each CPU which runs the updated version.

Software Product Services

A licensed customer can purchase annual product service agreements to receive updated versions on media when available. A customer may choose to copy updated versions onto additional CPUs during this service agreement period. In this case, the software Service Right-to-Copy must be purchased for each CPU which runs the updated version. Further information and availability can be found in the applicable SPD. Your local DIGITAL office can be contacted for additional assistance.

DIGITAL EQUIPMENT COMPUTER USERS SOCIETY

BENEFITS OF BELONGING

The Digital Equipment Computer Users Society (DECUS) is one of the largest and most respected users groups in the computer industry today. Membership in DECUS, which is free and voluntary, provides the individual user with information and services not found anywhere else.

DECUS provides an environment where users of Digital Equipment Corporation products can share information with other users and with DIGITAL. Members can find out the latest news on DIGITAL's hardware, software, and educational products. The feedback exchange with DIGITAL allows the users of DIGITAL's products to have a voice in the company's future.

Founded in 1961, DECUS now has three autonomous areas worldwide - DECUS U.S., DECUS Europe, made up of eight independent chapters, and DECUS GIA (General International Area), made up of four independent chapters. DECUS services and activities are shared between these chapters through mutual agreements.

All DECUS services promote the exchange of information in a noncommercial environment. Included in these services are:

Special Interest Groups (SIGs)

These groups, formed around an area of common interest, exist for a variety of hardware, operating systems, languages, applications, and marketing areas. Participation in these groups allows fellow users to exchange information and share technical expertise in the areas of most interest to the users.

Local Users Groups (LUGs) and National Users Groups (NUGs)

LUGs and NUGs are licensed groups of individuals who gather to share information with other users on a periodic basis. Not only do they have common professional interest, but they also have geographic and cultural ties. DIGITAL representatives attending these meetings often unveil new products and services and supply updates on existing policies and procedures.

Symposia

DECUS holds symposia each year in the different chapters, two per year in the U.S. These meetings provide a unique opportunity for users with a wide spectrum of experience to meet for up to five days of intensive technical exchange. Symposium activities include workshops, clinics, panels, tutorials, and formal paper presentations. DIGITAL participates in symposia by sending Product Group managers and developers to discuss strategies, products, problems, and solutions.

Publications

The flow of information among users, as well as between users and DIGITAL, is the primary goal of DECUS. Various publications generated by DECUS support this communication. They include chapter newsletters and *The Proceedings*, a technical volume published after each symposium. DECUS also publishes Special Interest Groups' newsletters that provide information pertaining to specific DIGITAL products.

Program Library

The DECUS Program Library is the main vehicle for the exchange of software among users of all DIGITAL systems. The Library contains over 1000 software programs written and voluntarily submitted by users. These programs include compilers, editors, utilities, numerical and statistical functions, as well as games and graphic routines. The Library publishes an annual software catalog that lists and describes all the DECUS programs available to all users for a minimal charge.

You are cordially invited to join over 60,000 other users of DIGITAL products around the world and begin to share your experiences, both successes and problems.

For more information, contact the appropriate DECUS chapter office listed here.

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